4. Does the application of Yes, list old	cation propose to coordinates.	correct previou	us site coord	linates?			Yes X N
Latitude	0	,		Longitude	0	,	
If Yes, give dedecrmination	een notified of thate and office what if available.	nere notice was	filed and a			Ex	Yes No.
nearest runw	~	km of antenna			-		-
(a)N	Landing Area		DIE	ance (km)	В	earing (degrees	; True)
(b)	one						
(a) Elevation: /s	te the nearest meter	,					
(1) of site a	bove mean sea le	vel;				271	_ meters
	op of supporting nances, and lighti			cluding antenna	, all other	91	_ meters
(8) of the to	op of supporting	structure above	mean seal	level [(a)(1) + (a)	(2)]	362	_ meters
b) Height of rac	iation center: /	e the nearest we	ter) H - Ho	prizontai; V • Ver	tical		
(1) above gr	ound					83.5	_ meters ()
						83.5	_ meters ('
(2) above m	ean sea level [aX1) + (bX1)]				354.5	_ meters (1
						354.5	meters (
(B) above av	erage terrain					100	meters (H
						100	meters (V
in Question 7 al	hibit sketch(es) of bove, except item and orientations	7(b)(3). If mour	nted on an	AM directional-ar	ray element.	Exhi	bit No.
ffective Radiate (a) ERP in the h			2.0				
(b) is beam tilt p	proposed?		3.0	kw (H*)3.() kw (V*)	Y	X No
If Yes, specifical elevi	y maximum ERP ational plot of rad	in the plane of diated field.				Exhib	oit No.
-Polarization				kw (H*)	kw (V*)		

10.	is a directional antenna proposed?	Yes X No
	If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.318, including plot(s) and tabulations of the relative field.	Exhibit No.
11.	Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 78.815(a) and (b)?	X Yes No
	If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 8.16 mV/m service.	Exhibit No.
12	Will the main studio be within the protected 3.16 mV/m field strength contour of this proposal?	X Yes No
	If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 78.1125.	Exhibit No.
18.	(a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207?	X Yes No
	(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply?	Yes No
	(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers.	Exhibit No.
	(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.	Exhibit No.
	(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:	Exhibit No.
	 Protected and interfering contours, in all directions (360), for the proposed operation. Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location. 	
	(6) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.	
	(4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.	
	(5) The official title(s) of the map(s) used in the exhibits(s).	
1	Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast (except citizens bend or exeteer) radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?	Yes X No
1	Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use	Exhibit No.

prior to grant of this application. (See 47 C.F.R. Sections 73.315(b), 73.315(e) and 73.318.1

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 4)

This map must comfurther clearly and	oit a 7.5 minute series legibly, and accurated apply with the required legibly display the de markings, and must	ly, the location ements set for original prin	n of the proposed tr rth in Instruction V nted contour lines a	ansmitting antenna. (D). The map must and data as well as	Exhibit No.
16. Attach as an Exhib with the original kilometers:	printed latitude and	d longitude		ale of distance in	Exhibit No.
(a) the proposed tre prepared;	ansmitter location, an	d the radials	along which profile	graphs have been	
(b) the 6.16 mV/m as	nd 1 mV/m predicted o	contours; and			
(c) the legal bounda	ries of the principal o	community to	be served.		
17. Specify area in squathe predicted 1 mV/s		ni 2.59 sq. kn	n.) and population (is	itest census) within	
Area 1828.4	eq. km.	Population	25,008		
18. For an application in Aerenautical Chart or and longitude marking	nvolving an auxillar; equivalent; that showings and a scale of dis	s clearly, legi	bly, and accurately,		Exhibit No. NA
(a) the proposed aux	iliary i mV/m contour	, and			
(b) the 1 mV/m conto auxiliary. Also spe	our of the licensed ma scify the file number	in facility for of the license	which the applied-	for facility will be	
19. Terrain and coverage	data ite be calculated	in accordance	with 47 C.F.R. Section	73.3131	
Source of terrain dat	18: Ichock only one box b	be lesi	•		
X Linearly interpo	plated 60-second datab	ese [7.5 minute topogra	phic map	
(Source:Da	taworld)		
Other thristly so	Dbarize)				

	Height of radiation center above average	Predicted Distances		
Radial bearing (degrees True)	elevation of radial from 8 to 18 km (meters)	To the 3.16 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)	
•				
0	91.8	12.9	23.3	
45	122.9	15.0	26.5	
90	99.0	13.4	24.1	
196	76.5	11.9	21.3	
180	107.7	14.0	25.1	
225	126.2	15.2	26.8	
270	81.0	12.2	21.9	
315	95.0	13.1	23.6	

^{*}Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

20.	Environmental	Statement/See 47 C.F.R.	Section 1 1301 at sen 1

Would a Commission grant of this application come within Section 11807 of the FCC Rules, such that it may have a significant environmental impact?	Yes X No
Categorically excluded as per CFR 1.1306 See Engineering Stat If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.	khibit No.
If No, explain briefly why not.	AN

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed)	Relationship to Applicant (e.g., Consulting Engineer) Technical Director		
J. Eric Hoehn			
Signature Sch Seh	Address (Include 219 Code) P.O. Box 7573 Columbia, MO 65205		
November 5, 1992	Telephone No. (Include Area Code) (314) 474-0990		

ENGINEERING EXHIBIT APPLICATION FOR FM CONSTRUCTION PERMIT

NEW FM-CHANNEL 244A-BOURBON, MO. LAKE BROADCASTING, INC. 3 K.W. H&V 100 METERS H.A.A.T.

Engineering Statement

This engineering exhibit of which this statement is part, has been prepared by J. Eric Hoehn in support of an application for a NEW FM Broadcast station construction permit at Bourbon, Missouri, which is being filed pursuant to the FIRST COME, FIRST SERVED PROVISION. Channel 244A Is assigned to Bourbon, Missouri, at a site restricted reference point, selected by the FCC staff. Because this allotment was made as a result of petitions filed prior to October 2, 1989, applicants may avail themselves of the provisions of Section 73.213(C)(1) of the Commission's rules.

The filing window for use of Channel 244A at Bourbon, Missouri closed with NO applications filed for it's use.

Thus, this application is being filed under FCC Public Notice FCC-86-265, 36708, May 22, 1986, under FIRST COME, FIRST SERVED PROVISION. See Operation of F.C.F.S. FM Broadcast Application Process System, Paragraph 2.

It is proposed herein, to construct a new tower, install a new antenna and transmitter, which will operate on channel 244A with Effective Radiated Power of 3.0 KW H&V and antenna height above average terrain of 100 meters.

The construction proposed herein would not be subject to environmental processing in accordance with 47 CFR 1.1306. The Central Regional Office of the Federal Aviation Administration has been notified of the proposed construction. This application conforms with all applicable rules and regulations of the Federal Communications Commission.

Proposed Transmitting Location

The proposed transmitting facility will consist of a 2-bay antenna side-mounted on a tapered section, atop a uniform cross-section, guyed steel tower to be constructed 1.45 miles West of the Meramec River bridge on the Southwest side of Highway "N", Crawford County, Missouri.

The proposed tower location is located at the following geographic coordinates, which were scaled from the "Onondaga Cave", MO. U.S.G.S. 7-1/2 minute quadrangle map:

38 05' 22" North Latitude

91 10' 13" West Longitude

A topographic map showing the proposed transmitter location is included herein as Exhibit?. Exhibit 6 is a sketch of the proposed antenna and supporting structure.

The transmitter site for Bourbon, Missouri was site restricted by the FCC staff in MM-Docket No. 89-74, RM 6440, RM-6772 in order to avoid a conflict with a rule-making to upgrade station KCMQ (FM) to Channel 244C3 at Columbia, Missouri.

KCMQ was granted a construction permit for use of Channel 244C3 at Columbia, Missouri (BPH-911021IF), which fully spaced the Bourbon, Missouri reference point, as well as the proposed site for use of Channel 244A that is specified in this application.

On September 1, 1992, Al Greenfield, d/b/a The Greenfield Group, Receiver, the present temporary licensee of KCMQ (FM), filed a minor-modification of construction permit seeking to modify the KCMQ construction permit, to allow the use of a short-spaced site 7.3 KM short-spaced to the Bourbon Channel 244A reference point.

KCMQ has requested processing pursuant to 47 CFR 73.215 for this short-spacing.

The site used in this application is at a greater distance from the most recent KCMQ proposal, than the reference point protected by KCMQ in it's 73.215 short-spaced application. Therefore, this application is adequately protected by the pending KCMQ application should it be granted.

Coverage Contours

The predicted coverage contours were calculated in accordance with the provisions of 47 CFR 73.313. No consideration was given to terrain roughness correction factors, as is consistent with current FCC policy.

The average elevations from 3 to 16 kilometers from the proposed site were obtained from the NGDC 30- second computer database. The standard eight radials evenly spaced at 45-degree intervals were used for determining the average elevations and the distance to the coverage contours. The antenna radiation center height above average terrain in the individual radial directions and the effective radiated power were used in conjunction with the F(50,50) curves of 47 73.333 to determine the distances to coverage contours. Exhibit 10 is a map showing the predicted coverage contours for the new FM Station.

As is shown on Exhibit 8, the 70 dBu median field strength contour will cover all of Bourbon, Missouri.

Environmental Considerations

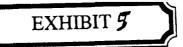
The proposal is categorically excluded from environmental processing, as it meets all of the criteria for such an exclusion in 47 CFR 1.1306. The proposal does not involve construction at a site location specified under 47 CFR 1.1307(a) (1)-(5), nor is expected to employ high intensity lighting under 47 CFR 1.1307(a) (6) and the human exposure to radiofrequency radiation is predicted to be within the standards specified in 47 CFR 1.1307(b).

The proposed FM facilities were evaluated in terms of potential radiofrequency exposure at ground level in accordance with OST Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation." Using the total of horizontally polarized and vertically polarized power, 6 kilowatts, and a two element FM transmitting antenna with the lowest element of the antenna approximately 98 meters above ground level, the radio-frequency field exposure on the ground in the vicinity of the tower will be well within the FCC guidelines. Applicant will erect fencing around the base of the tower, and appropriate signs will be posted to warn of potential RF hazards to the general public.

During times when work is scheduled on the tower, power will be decreased, or the station operation will be suspended to insure that OST Bulletin 65 guidelines are met for all employees and contractors.

INTERFERENCE STATEMENT

The 115 dBu "Blanketing" contour of the new FM would extend to 1.9 kilometers. Applicant recognizes its responsibility to resolve complaints of blanketing interference within this area as required by 47 CFR 73.318. Applicant also recognizes its responsibility to eliminate any objectionable interference to existing or authorized radio facilities or to receivers in use at the time of grant of this application.



DO NOT HEMOVE C				Aeronautical Study Number	
US Department of Transportation Federal Aviation Administratio		SED CONSTRUCTION OR ALTE	RATION		
1. Nature of Proposa	<u> </u>		2. Complete D	escription of Structure	
A. Type	B Class	C Work Schedule Dates		e radiated power and assigned	
XXNew Construction Alteration	Permanent Temporary (Durationmor	Beginning On FCC End approval	all existing, pro stations utilizing	posed or modified AM, FM, or g this structure	TV broadcast
		corporation, etc. proposing the		d configuration of power trans orting towers in the vicinity of l	
construction o	r alteration. (Number, Street, City, St	tale and Zip Code	and public airpo		
000	- 6569			ation showing site orientation on materials of the proposed s	
, <u> </u>	ne Number		and construction	on materials of the proposed s	iructure.
			A: 3KW I	H&V 96.7MHz	
Lak	e Broadcasting, In	c. I]		
	Indacom Drive		B: None		
St.	Peters, MO. 633	76	G. 200 .	foot steel gu	vođ
1		1		tower tower	yeu
B Name address and tale			ladio	COMEI	
b. Name, address and tele	phone number of proponent's representati	ive it different than 3 above.			
			(if more space i	s required, continue on a sepa	erate sheet.)
4. Location of Struct	ure		5. Height and	Elevation (Complete to	the nearest foot
A. Coordinates *	B Nearest City or Town, and State	C Name of nearest airport, heliport, flightpark		e above mean sea level	
(To nearest second)	Bourbon, MO.	or seaplane base Sullivan Regional			890
38 05 22.1	7 6 • 0 Miles	(1) Distance from structure to nearest point of nearest runway	B. Height of Struct appurtenances	and lighting (if any) above	300
0 11 11	2) Direction to 4B	(2) Direction from structure to airport	ground, or wate	above mean sea level (A · B)	1190
91 10 13.5 Longitude	N.W.	North		,	
1	* NAD-83 Co-ordin .45 miles West of	the Meramec River Bri . Crawford County, MC	dge, on	the Southwest	
Persons who knowled and	f willingly violate the Notice requirements o	R Part 77) pursuant to Section 1101 of the Feder If Part 77 are subject to a fine (criminal penalty) of e Federal Aviation Act of 1958, as amended (49)	not more than \$500 f		
I HEREBY CERTIF knowledge. In addit lighting standards in Date 11/5/92	ion, I agree to obstruction ma	nents made by me are true, comp rk and/or light the structure in acc	olete, and corr ordance with e	ect to the best of my established marking &	/ k
SEV VISE ONLY			Maria de la compansión de		10-11 P-11-11
in Proposition of the Control of the	ALUC (LICO) IN R. Pari, F. Subpari C. hazard to itr navigation. obstruction under the Part 77, Subpart C, but and to air_navigation. uction marked AA Advisory Circular	This determination with a subject to the licensing application for a construction permit is macase the determination expires on the dat the date the FCC denies the application. The issuing office at least 15 devertible the entructure is subject to the incensing application for a construction permit is macase the determination expires on the dat the date the FCC denies the application. The Request for extension of the intention of the incension of the intention of the incension of the intention	authority of the red de to the FC (10110)		thiese: salon and an date in such victor, or on livered to the

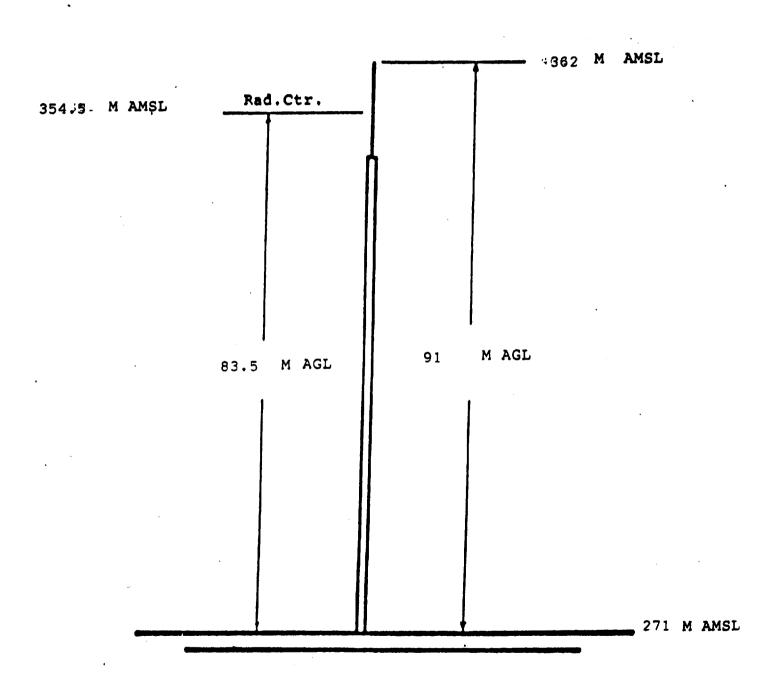
EXHIBIT 6

VERTICAL PLAN

Single, guyed steel tower supporting FM Broadcast antenna for Ch. 244 96.7 Mhz 3.0 Kw E.R.P.

SITE LOCATION

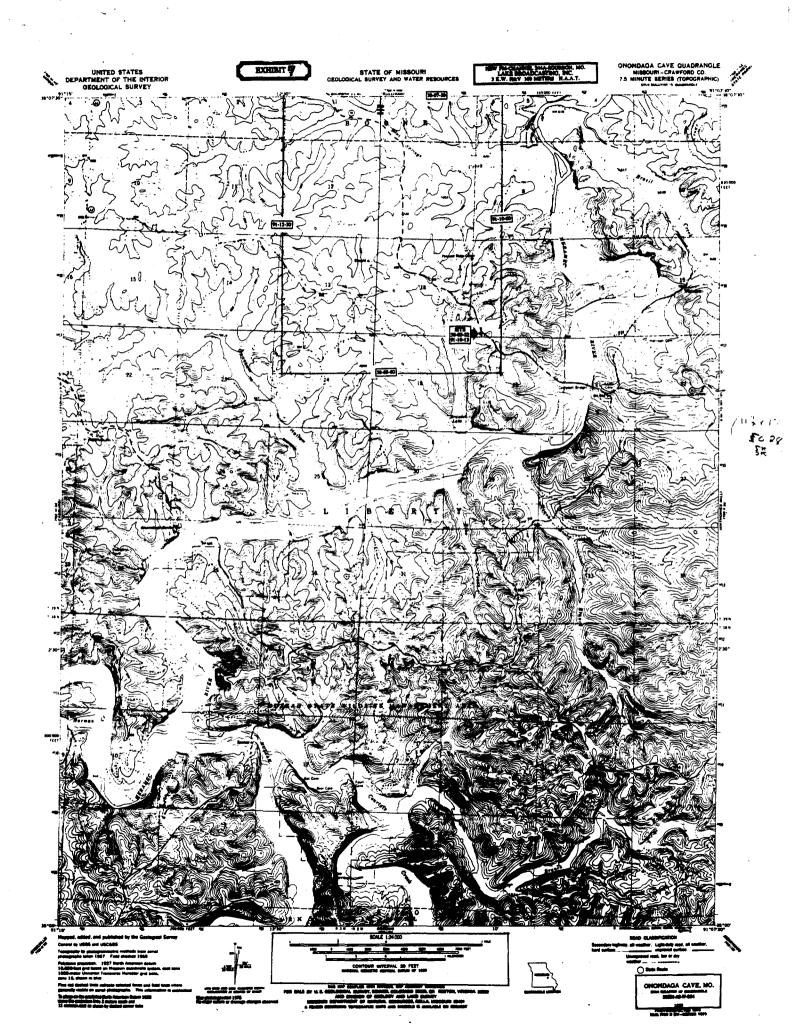
NL 38-05-22 WL 91-10-13

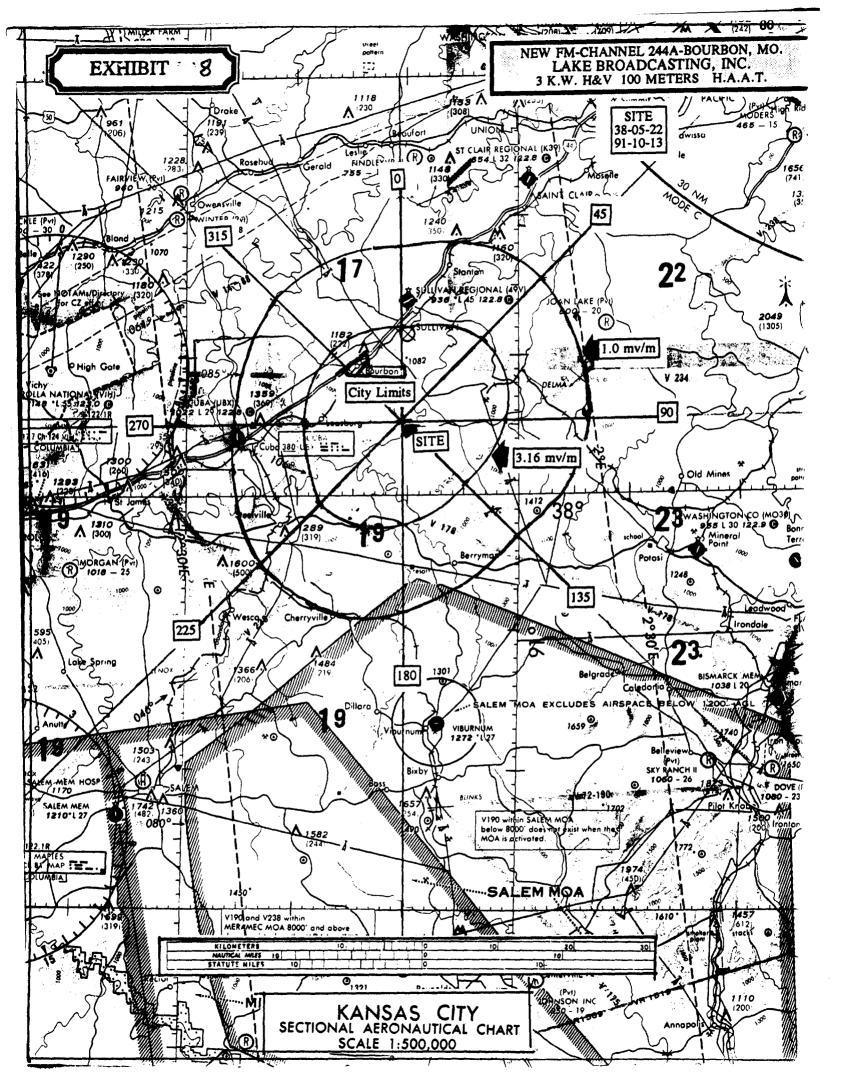


not to scale

guys not shown

NEW FM-CHANNEL 244A-BOURBON, MO.
LAKE BROADCASTING, INC.
3 K.W. H&V 100 METERS H.A.A.T.





CERTIFICATE OF SERVICE

I, Debra A. Williams, a secretary in the law offices of Rosenman & Colin, do hereby certify that on this 13th day of November, 1992, I have caused to be mailed, or hand-delivered, a copy of the foregoing "COMMENTS OF LAKE BROADCASTING, INC." to the following:

Michael C. Ruger, Chief*
Allocations Branch
Policy and Rules Division
Mass Media Bureau
Federal Communications Commission
2025 M Street, N.W., Room 8322
Washington, D.C. 20554

Ms. Kathleen Scheuerle*
Allocations Branch
Policy and Rules Division
Mass Media Bureau
Federal Communications Commission
2025 M Street, N.W., Room 8314
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Suite 400
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COUNSEL FOR THE GREENFIELD GROUP

Debra A. Williams

*BY HAND